

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :
Masayuki SHIBUTA : **Attn: APPLICATION BRANCH**
Serial No. NEW : **Docket No. 2000_1704A**
Filed December 13, 2000 :

VIBRATION GENERATING DEVICE OF
SMALL WIRELESS MACHINE

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, DC 20231

THE COMMISSIONER IS AUTHORIZED
TO CHARGE ANY DEFICIENCY IN THE
FEE FOR THIS PAPER TO DEPOSIT
ACCOUNT NO. 23-0975.

Sir:

Prior to initial examination of the above-identified new patent application, kindly amend the application as follows:

IN THE CLAIMS:

Kindly amend as follows:

Claim 3:

Line 2, delete "or 2".

Claim 4:

Line 2, delete "or 2".

Claim 5:

Line 2, delete "or 2".

Kindly add the following new claims:

6. A vibration generating device of the small wireless machine according to claim 2, wherein a caulked portion is formed into a concave shape in the tip portion end surface or the flat surface by caulking from the opening side of the groove portion to the bottom side so that a length dimension at the side of the groove in an axial line direction becomes longer than a length dimension at the outer peripheral side.

7. A vibration generating device of the small wireless machine according to claim 2, wherein in a width dimension W of the tip portion end surface or the flat surface from the side of the groove to the outer peripheral side, a range of 0.25 W to 0.9 W from an edge portion at the side of the groove is caulked.

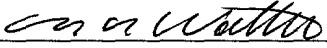
8. A vibration generating device of the small wireless machine according to claim 2, wherein the groove portion of the vibrator is formed to have such a size as to internally contain a range exceeding a center angle of 180° of the rotating shaft, and an opening width W_1 of the groove portion is set so that a ratio (W_1/D) to a diameter D of the rotating shaft of the motor is in a range of 0.70 to 0.95.

REMARKS

The present Preliminary Amendment is submitted to delete the multiple dependencies of claims 3-5, thereby placing such claims in condition for examination and reducing the required PTO filing fee.

Respectfully submitted,

Masayuki SHIBUTA

By 
Charles R. Watts
Registration No. 33,142
Attorney for Applicant

CRW/kjf
Washington, D.C.
Telephone (202) 721-8200
Facsimile (202) 721-8250
December 13, 2000